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Kumar

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(54) **PORTABLE COMPUTING,
COMMUNICATION AND ENTERTAINMENT
DEVICE WITH CENTRAL PROCESSOR
CARRIED IN A DETACHABLE HANDSET**

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(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
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This patent is subject to a terminal dis-
claimer.

5,515,424 A *	5/1996	Kenney	379/93.22
5,530,852 A	6/1996	Meske, Jr. et al.	
5,625,673 A *	4/1997	Grewe et al.	455/556.2
5,754,962 A	5/1998	Griffin	
5,761,662 A	6/1998	Dasan	
5,974,334 A *	10/1999	Jones, Jr.	455/556.2
6,069,593 A *	5/2000	Lebby et al.	455/557
6,115,618 A	9/2000	Lebby et al.	
6,137,481 A	10/2000	Phillipps	
6,266,539 B1 *	7/2001	Pardo	455/556.2
6,343,217 B1	1/2002	Borland	
7,120,462 B2	10/2006	Kumar	
2002/0068549 A1 *	6/2002	Tendler	455/414
2003/0114186 A1 *	6/2003	Goetz	455/552

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(58) **Field of Classification Search** **455/556.1;**
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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,189,632 A 2/1993 Paajanen

FOREIGN PATENT DOCUMENTS

CN 1196840 10/1998

* cited by examiner

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(57) **ABSTRACT**

The present invention relates in general to portable processor based devices that provide computing, communication or entertainment functionality. More particularly, the present invention pertains to portable processor based devices operable while being held in its user's hand and providing communications, organizer and/or entertainment functions, such as cellular telephones, palm-sized organizers, and MP3 players, and to portable processor based devices providing general computing capabilities, such as laptop or handheld personal computers (PCs). More specifically, the present invention relates to systems that detachably mate a plurality of portable processor based devices to provide their combined functionality in an integrated structure.

18 Claims, 3 Drawing Sheets

